



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

649.5111

Job Sheet 176020



Part No: 649.5111

Job Qty: 10 ea

Part Name: LH Wiper Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/13/18

Job Tracking No:

Due Date: 4/20/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: 649.5100 REV.D IPP REV:A NEW ISSUE 13-10-23 JLM VERIFIED BY:DD IPP REV:B 17.11.20 AS PER DWG REV.C DD VERF:RQ IPP REV:C 18.03.28 AS PER DWG REV.D DD VERF:JFS

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation              | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off    |
|-------|------------------------|--------|------------|----------|-----------|---------|-----------------------|-----------|-------------|
|       |                        |        |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |             |
| 90    | Start up Operation     | 10 Ea  |            | 4/11/18  | 0.00      | 0.00    | Start Up Machining-1  |           | 12 18-05-04 |
| 100   | Bandsaw                | 10 pcs |            | 4/12/18  | 0.00      | 2.50    | Bandsaw1              |           | 12 18-05-07 |
| 110   | CNC Vertical Machining | 10 pcs |            | 4/20/18  | 0.00      | 142.86  | HAAS 5 Axis           |           | 13 18-05-07 |
| 120   | QC                     | 10 pcs |            | 4/20/18  | 0.00      | 0.00    | QC2                   |           | 13 18-05-07 |
| 130   | QC                     | 10 pcs |            | 4/20/18  | 0.00      | 0.00    | QC8 Machining-1       |           | 13 18-05-07 |
| 140   | Outsource              | 10 pcs |            | 4/20/18  |           |         | ATG001-VC             |           | 13 18-05-07 |
| 150   | Packaging              | 10 pcs |            | 4/20/18  | 0.00      | 0.00    | Packaging2            |           | 13 18-05-07 |
| 155   | QC                     | 10 pcs |            | 4/20/18  | 0.00      | 0.00    | QC5                   |           | 13 18-05-07 |
| 180   | Packaging              | 10 pcs |            | 4/20/18  | 0.00      | 0.00    | Packaging3-1          |           | 13 18-05-07 |
| 190   | QC21-SA                | 10 Ea  |            | 4/20/18  | 0.00      | 0.00    | QC21                  |           | 13 18-05-07 |

Part Op 100 - Cut Blank at 7.50"

Descriptions: 110 - 1-Machine per folio Fb351 DWG REV: \_\_\_\_\_ FOLIO REV: \_\_\_\_\_ 2- deburr and break all sharp edges

140 - Issue P/O to ATG 10039824 AS PER DWG 649.5100 1- Black Anodize as per 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required

180 - \*\*\*IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV\*\*\*

### Job BOM

| Part / Item         | Component Name                            | Quantity            | Operation             | Container |
|---------------------|-------------------------------------------|---------------------|-----------------------|-----------|
| M7075T6S4.500X5.000 | 7075-T6S Sheet 4.500" Thick X 5.000" Wide | 6.1400 ft (.614 ea) | 90-Start up Operation | 5068528   |

### Job Allocations

| Operation             | Component Part      | Required | Inventory | Allocated |
|-----------------------|---------------------|----------|-----------|-----------|
| 90-Start up Operation | M7075T6S4.500X5.000 | 6        | 27        | 0         |

### Part Specifications

Specifications could not be found.

### WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: Date:

Work Order update only

|                                                      |                                                                     |
|------------------------------------------------------|---------------------------------------------------------------------|
| Work Order: _____<br>Part No. _____<br>NCR No. _____ | <b>DISPOSITION</b><br>R _____<br>Us _____<br>Suspected Unapp. _____ |
|------------------------------------------------------|---------------------------------------------------------------------|

|        |         |
|--------|---------|
| Date : | Step #: |
|--------|---------|

[illegible]

| Root Cause         |  |                       |  |                        |
|--------------------|--|-----------------------|--|------------------------|
| Environment        |  | No Re-verification    |  | Pressure/Forced        |
| Design             |  | Operator              |  | Bending                |
| Doc/Data           |  | Offset/Setup          |  | Centre Not Concentric  |
| Equip/Tooling      |  | Supplier              |  | Cracks                 |
| Handling/Pre       |  | Training              |  | Crimp/Kink/Ripple/Wave |
| Material           |  | Use for Testing       |  | Cuffs                  |
| Internal Transport |  | Poor Information      |  | Crushing               |
| Tribal Knowledge   |  | Rushing               |  | Heat Treat             |
| LOA                |  | Product Improvement   |  | Wave/Twist in Tube     |
| Substation         |  | Process Improvement   |  | Marks/Chatter          |
| Past Expiry Date   |  | Manufacturing Process |  |                        |
| Misidentified      |  | Past Due              |  | OTHER :                |

| 7/PROCESS        |             |
|------------------|-------------|
| Water Jet        | Engineering |
| Ind. Eng. Coord. | Quality     |
| Pre/Packaging    | Other       |
| Supplier         |             |

MRB (QSI042) Approval

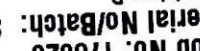
|  |              |
|--|--------------|
|  | Completed By |
|--|--------------|

|  |                                                 |
|--|-------------------------------------------------|
|  | Lead hand / Supervisor<br>Approval Verification |
|--|-------------------------------------------------|

|  |                                 |
|--|---------------------------------|
|  | QC / QA Coordinator<br>Approval |
|--|---------------------------------|

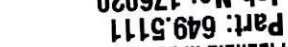
Instructions Incomplete/Unclear

Drill Holes



**DART**  
AEROSPACE

Container No: S068528



Part: 649.5111

Job No: 176020

Serial No/Batch: S068528

Revision: D

Inspector: D

Positioned Wrong

Outside Dimensions

Over/Under tolerance

Part Incorrect

Part Lost/Missing

Part Moved

Drawing

Finish

Misread

Turning Sequence

Part: 649.5111

Job No: 176020

Serial No/Batch: S068528

Revision: D

Inspector: D

Container No: S068528



Part: 649.5111

Job No: 176020

Serial No/Batch: S068528

Revision: D

Inspector: D





DQA: \_\_\_\_\_ Date: \_\_\_\_\_



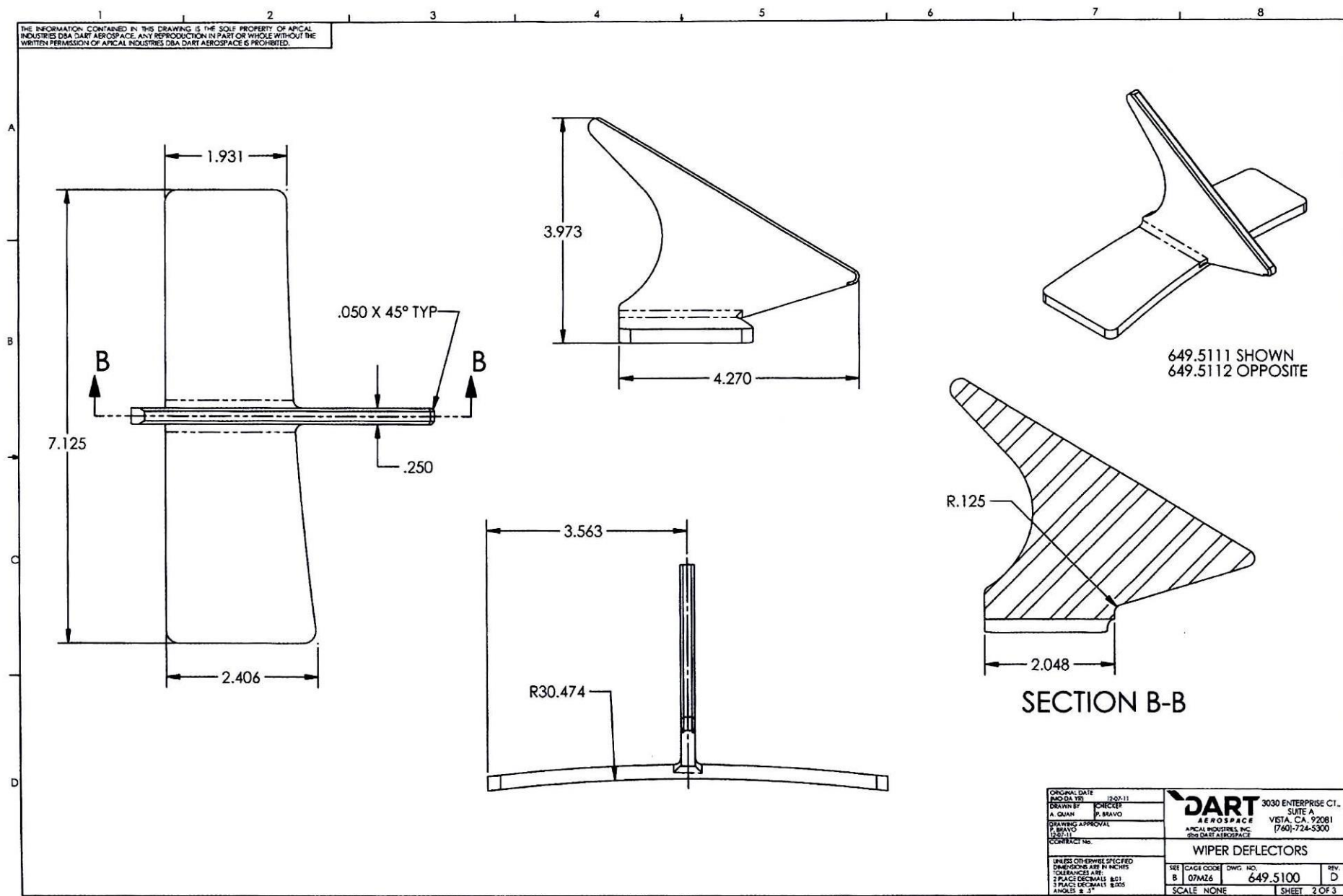
## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |                                             | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Skid-tube <input type="checkbox"/></td> <td style="width: 15%;">Cross tube <input type="checkbox"/></td> <td style="width: 15%;">Water Jet <input type="checkbox"/></td> <td style="width: 15%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> |                                   |                                   |                                       |                                        |                                   | Skid-tube <input type="checkbox"/>    | Cross tube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/>     | Machining <input type="checkbox"/>          | Small Fab <input type="checkbox"/>        | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/>           | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/>               | Large Fab <input type="checkbox"/>        | Composite <input type="checkbox"/>             | Supplier <input type="checkbox"/>      |                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                          |                                  |                                                |                                 |                                                 |                                |                                   |                                     |                                             |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                           |                                 |                                    |                                               |                                                            |                                        |                                      |                                        |                                                          |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                           |                                        |                                |                               |                                             |                                          |                                  |                                     |                                       |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                           |                                             |                                               |                                         |                                            |                                     |                                  |                                 |                                  |                                           |
| Skid-tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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Eng. Coord. <input type="checkbox"/>                                                                                                                                         | Quality <input type="checkbox"/>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Thermoforming <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Large Fab <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                | Step #:                                                                                                                                                                            |                                             | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                   | MRB (QSI042) Approval                 |                                        |                                   |                                       |                                     |                                    |                                          |                                             |                                           |                                            |                                  |                   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| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Root Cause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| <table style="width: 100%; border: none;"> <tr><td>Environment <input type="checkbox"/></td><td>No Re-verification <input type="checkbox"/></td></tr> <tr><td>Design <input type="checkbox"/></td><td>Operator <input type="checkbox"/></td></tr> <tr><td>Doc/Data <input type="checkbox"/></td><td>Offset/Setup <input type="checkbox"/></td></tr> <tr><td>Equip/Tooling <input type="checkbox"/></td><td>Supplier <input type="checkbox"/></td></tr> <tr><td>Handling/Pre <input type="checkbox"/></td><td>Training <input type="checkbox"/></td></tr> <tr><td>Material <input type="checkbox"/></td><td>Use for Testing <input type="checkbox"/></td></tr> <tr><td>Internal Transport <input type="checkbox"/></td><td>Poor Information <input type="checkbox"/></td></tr> <tr><td>Tribal Knowledge <input type="checkbox"/></td><td>Rushing <input type="checkbox"/></td></tr> <tr><td>LOA <input type="checkbox"/></td><td>Product Improvement <input type="checkbox"/></td></tr> <tr><td>Substation <input type="checkbox"/></td><td>Process Improvement <input type="checkbox"/></td></tr> <tr><td>Past Expiry Date <input type="checkbox"/></td><td>Manufacturing Process <input type="checkbox"/></td></tr> <tr><td>Misidentified <input type="checkbox"/></td><td>Past Due <input type="checkbox"/></td></tr> </table> |                                                | Environment <input type="checkbox"/>                                                                                                                                               | No Re-verification <input type="checkbox"/> | Design <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Operator <input type="checkbox"/> | Doc/Data <input type="checkbox"/> | Offset/Setup <input type="checkbox"/> | Equip/Tooling <input type="checkbox"/> | Supplier <input type="checkbox"/> | Handling/Pre <input type="checkbox"/> | Training <input type="checkbox"/>   | Material <input type="checkbox"/>  | Use for Testing <input type="checkbox"/> | Internal Transport <input type="checkbox"/> | Poor Information <input type="checkbox"/> | Tribal Knowledge <input type="checkbox"/>  | Rushing <input type="checkbox"/> | LOA <input type="checkbox"/>           | Product Improvement <input type="checkbox"/> | Substation <input type="checkbox"/>          | Process Improvement <input type="checkbox"/> | Past Expiry Date <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> | Misidentified <input type="checkbox"/> | Past Due <input type="checkbox"/> | <table style="width: 100%; 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| Environment <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Handling/Pre <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Material <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Internal Transport <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Tribal Knowledge <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| LOA <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Substation <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Misidentified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Pressure/Forced <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Bending <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Crimp/Kink/Ripple/Wave <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Heat Treat <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Wave/Twist in Tube <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Marks/Chatter <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Temperature/Cure <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Set-up <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| BOM/Route <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Broken/Damage/Defect <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Inspection Incomplete/Unqualified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Contamination <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Countersink <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Cut Too Short <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Instructions Incomplete/Unclear <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Drill Holes <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Power Loss/Surge <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Wrong Stock Pulled <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Mislabeled <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Misaligned/off center <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Positioned Wrong <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Outside Dimensions <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Over/Under tolerance <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Part Incorrect <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Part Lost/Missing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Part Moved <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Drawing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Misread <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.





DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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border: none;"> <tr> <td style="border: none;">Skid-tube <input type="checkbox"/></td> <td style="border: none;">Cross tube <input type="checkbox"/></td> <td style="border: none;">Water Jet <input type="checkbox"/></td> <td style="border: none;">Engineering <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Machining <input type="checkbox"/></td> <td style="border: none;">Small Fab <input type="checkbox"/></td> <td style="border: none;">Prod. 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| <b>Root Cause</b><br><table style="width: 100%; border: none;"> <tr> <td style="border: none;">Environment <input type="checkbox"/></td> <td style="border: none;">No Re-verification <input type="checkbox"/></td> <td style="border: none;">Pressure/Forced <input type="checkbox"/></td> <td style="border: none;">Temperature/Cure <input type="checkbox"/></td> <td style="border: none;">Power Loss/Surge <input type="checkbox"/></td> <td style="border: none;">Positioned Wrong <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Design <input type="checkbox"/></td> <td style="border: none;">Operator <input type="checkbox"/></td> <td style="border: none;">Bending <input type="checkbox"/></td> <td style="border: none;">Set-up <input type="checkbox"/></td> <td style="border: none;">Folio/Program <input type="checkbox"/></td> <td style="border: none;">Outside Dimensions <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Doc/Data <input type="checkbox"/></td> <td style="border: none;">Offset/Setup <input type="checkbox"/></td> <td style="border: none;">Centre Not Concentric <input type="checkbox"/></td> <td style="border: none;">BOM/Route <input type="checkbox"/></td> <td style="border: none;">Grain <input type="checkbox"/></td> <td style="border: none;">Over/Under tolerance <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Equip/Tooling <input type="checkbox"/></td> <td style="border: none;">Supplier <input type="checkbox"/></td> <td style="border: none;">Cracks <input type="checkbox"/></td> <td style="border: none;">Broken/Damage/Defect <input type="checkbox"/></td> <td style="border: none;">Weld <input type="checkbox"/></td> <td style="border: none;">Part Incorrect <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Handling/Pre <input type="checkbox"/></td> <td style="border: none;">Training <input type="checkbox"/></td> <td style="border: none;">Crimp/Kink/Ripple/Wave <input type="checkbox"/></td> <td style="border: none;">Inspection Incomplete/Unqualified <input type="checkbox"/></td> <td style="border: none;">Wrong Stock Pulled <input type="checkbox"/></td> <td style="border: none;">Part Lost/Missing <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Material <input type="checkbox"/></td> <td style="border: none;">Use for Testing <input type="checkbox"/></td> <td style="border: none;">Cuffs <input type="checkbox"/></td> <td style="border: none;">Contamination <input type="checkbox"/></td> <td style="border: none;">Out of Sequence <input type="checkbox"/></td> <td style="border: none;">Part Moved <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Internal Transport <input type="checkbox"/></td> <td style="border: none;">Poor Information <input type="checkbox"/></td> <td style="border: none;">Crushing <input type="checkbox"/></td> <td style="border: none;">Countersink <input type="checkbox"/></td> <td style="border: none;">Off-set <input type="checkbox"/></td> <td style="border: none;">Drawing <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Tribal Knowledge <input type="checkbox"/></td> <td style="border: none;">Rushing <input type="checkbox"/></td> <td style="border: none;">Heat Treat <input type="checkbox"/></td> <td style="border: none;">Cut Too Short <input type="checkbox"/></td> <td style="border: none;">Mislabeled <input type="checkbox"/></td> <td style="border: none;">Finish <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">LOA <input type="checkbox"/></td> <td style="border: none;">Product Improvement <input type="checkbox"/></td> <td style="border: none;">Wave/Twist in Tube <input type="checkbox"/></td> <td style="border: none;">Instructions Incomplete/Unclear <input type="checkbox"/></td> <td style="border: none;">Fit/Function <input type="checkbox"/></td> <td style="border: none;">Misread <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Substation <input type="checkbox"/></td> <td style="border: none;">Process Improvement <input type="checkbox"/></td> <td style="border: none;">Marks/Chatter <input type="checkbox"/></td> <td style="border: none;">Drill Holes <input type="checkbox"/></td> <td style="border: none;">Misaligned/off center <input type="checkbox"/></td> <td style="border: none;">Turning Sequence <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Past Expiry Date <input type="checkbox"/></td> <td style="border: none;">Manufacturing Process <input type="checkbox"/></td> <td colspan="4"></td> </tr> <tr> <td style="border: none;">Misidentified <input type="checkbox"/></td> <td style="border: none;">Past Due <input type="checkbox"/></td> <td colspan="4"></td> </tr> </table> |                                                                                                                                                                                    | Environment <input type="checkbox"/>                           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<input type="checkbox"/> | Part Incorrect <input type="checkbox"/> | Handling/Pre <input type="checkbox"/> | Training <input type="checkbox"/> | Crimp/Kink/Ripple/Wave <input type="checkbox"/> | Inspection Incomplete/Unqualified <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/> | Part Lost/Missing <input type="checkbox"/> | Material <input type="checkbox"/> | Use for Testing <input type="checkbox"/> | Cuffs <input type="checkbox"/> | Contamination <input type="checkbox"/> | Out of Sequence <input type="checkbox"/> | Part Moved <input type="checkbox"/> | Internal Transport <input type="checkbox"/> | Poor Information <input type="checkbox"/> | Crushing <input type="checkbox"/> | Countersink <input type="checkbox"/> | Off-set <input type="checkbox"/> | Drawing <input type="checkbox"/> | Tribal Knowledge <input type="checkbox"/> | Rushing <input type="checkbox"/> | Heat Treat <input type="checkbox"/> | Cut Too Short <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Finish <input type="checkbox"/> | LOA <input type="checkbox"/> | Product Improvement <input type="checkbox"/> | Wave/Twist in Tube <input type="checkbox"/> | Instructions Incomplete/Unclear <input type="checkbox"/> | Fit/Function <input type="checkbox"/> | Misread <input type="checkbox"/> | Substation <input type="checkbox"/> | Process Improvement <input type="checkbox"/> | Marks/Chatter <input type="checkbox"/> | Drill Holes <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> | Turning Sequence <input type="checkbox"/> | Past Expiry Date <input type="checkbox"/> | Manufacturing Process <input type="checkbox"/> |  |  |  |  | Misidentified <input type="checkbox"/> | Past Due <input type="checkbox"/> |  |  |  |  | <b>FAULT CATEGORY</b><br><table style="width: 100%; border: none;"> <tr> <td style="border: none;">Power Loss/Surge <input type="checkbox"/></td> <td style="border: none;">Positioned Wrong <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Folio/Program <input type="checkbox"/></td> <td style="border: none;">Outside Dimensions <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Grain <input type="checkbox"/></td> <td style="border: none;">Over/Under tolerance <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Weld <input type="checkbox"/></td> <td style="border: none;">Part Incorrect <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Wrong Stock Pulled <input type="checkbox"/></td> <td style="border: none;">Part Lost/Missing <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Out of Sequence <input type="checkbox"/></td> <td style="border: none;">Part Moved <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Off-set <input type="checkbox"/></td> <td style="border: none;">Drawing <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Mislabeled <input type="checkbox"/></td> <td style="border: none;">Finish <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Fit/Function <input type="checkbox"/></td> <td style="border: none;">Misread <input type="checkbox"/></td> </tr> <tr> <td style="border: none;">Misaligned/off center <input type="checkbox"/></td> <td style="border: none;">Turning Sequence <input type="checkbox"/></td> </tr> </table> |  | Power Loss/Surge <input type="checkbox"/> | Positioned Wrong <input type="checkbox"/> | Folio/Program <input type="checkbox"/> | Outside Dimensions <input type="checkbox"/> | Grain <input type="checkbox"/> | Over/Under tolerance <input type="checkbox"/> | Weld <input type="checkbox"/> | Part Incorrect <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/> | Part Lost/Missing <input type="checkbox"/> | Out of Sequence <input type="checkbox"/> | Part Moved <input type="checkbox"/> | Off-set <input type="checkbox"/> | Drawing <input type="checkbox"/> | Mislabeled <input type="checkbox"/> | Finish <input type="checkbox"/> | Fit/Function <input type="checkbox"/> | Misread <input type="checkbox"/> | Misaligned/off center <input type="checkbox"/> | Turning Sequence <input type="checkbox"/> |
| Environment <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Design <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Doc/Data <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Equip/Tooling <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Handling/Pre <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                | Inspection Incomplete/Unqualified <input type="checkbox"/> | Wrong Stock Pulled <input type="checkbox"/>    | Part Lost/Missing <input type="checkbox"/>    |                                           |                                           |                                    |                                      |                                    |                                    |                                            |                                             |                                        |                                       |                                                |                                    |                                    |                                               |                                        |                                   |                                 |                                               |                               |      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| Material <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                | Contamination <input type="checkbox"/>                     | Out of Sequence <input type="checkbox"/>       | Part Moved <input type="checkbox"/>           |                                           |                                           |                                    |                                      |                                    |                                    |                                            |                                             |                                        |                                       |                                                |                                    |                                    |                                               |                                        |                                   |                                 |                                               |                               |      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| Internal Transport <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Out of Sequence <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Off-set <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Mislabeled <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Fit/Function <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Misaligned/off center <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| OTHER : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                     |                                                |                                           |



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO039824**

**Supplier:** ATG001-VC  
A.T.G. Industries Inc  
731 INDUSTRIELLE ROAD  
ROCKLAND  
ON  
K4K 1T2 Canada  
Phone: 613-446-4544  
Fax: 613-446-4556

**Attention:** Lalande, Marc-Andre

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** PO039824  
**PO Date:** 5/8/18  
**Due Date:** 5/17/18  
**Purchase Order Revision:**  
**Revision Date:**  
**Ship-To Contact:** Tsimiklis, ChrisoulaPhone:

**Via:** Ground  
**Pymt Terms:** Net 30  
**Freight Terms:**  
**Special Comments:**

## **Items**

| Line Item | Job    | Part     | Description                                                                                                                                                                                           | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------|-------------------|---------|------------------|----------------|
| 1         | 175552 | 644.4113 | Spacer, Stop<br>1-ISSUE P/O TO<br>ATG: _____<br><br>2-Anodize Black<br>-MPP-172 Section 2.1<br>-Hard Anodize IAW Mil-A-8625 Type 3<br>Class 2<br><br>3-Certification of Conformity is<br>required     | Firmed | 5/16/18  | 20 pcs         | 0 pcs             | 20 pcs  | \$4.20/pcs       | \$84.00        |
| 2         | 175557 | 644.4114 | Washer, Pivot<br>1-ISSUE P/O TO<br>ATG: _____<br><br>2-Anodize Black<br>-MPP-172 Section 2.1<br>-Hard Anodize IAW Mil-A-8625 Type 3<br>Class 2<br><br>3-Certification of Conformity is<br>required    | Firmed | 5/16/18  | 10 pcs         | 0 pcs             | 10 pcs  | \$5.70/pcs       | \$57.00        |
| 3         | 175558 | 644.4119 | Spacer, Fwd Stop<br>1-ISSUE P/O TO<br>ATG: _____<br><br>2-Anodize Black<br>-MPP-172 Section 2.1<br>-Hard Anodize IAW Mil-A-8625 Type 3<br>Class 2<br><br>3-Certification of Conformity is<br>required | Firmed | 5/16/18  | 20 pcs         | 0 pcs             | 20 pcs  | \$4.50/pcs       | \$90.00        |



| Items        |        |          |                                                                                                                                                                                                                                                                     |        |          |                |                   |         |                  |                |
|--------------|--------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item    | Job    | Part     | Description                                                                                                                                                                                                                                                         | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 4            | 175738 | 649.4813 | Shim<br>ISSUE P/O: _____ As<br>Per MPP-172 Section 2.1, Hard<br>Anodize IAW MIL-A-8625, Type III,<br>Class 2, Color Black As Per MPP-172<br>Section 4.2 Prime IAW MIL-P-23377J<br>Type1 Class N                                                                     | Firmed | 5/16/18  | 11 pcs         | 0 pcs             | 11 pcs  | \$7.45/pcs       | \$81.95        |
|              | 172764 |          |                                                                                                                                                                                                                                                                     | Firmed | 5/16/18  | 15 pcs         | 150 pcs           | 15 pcs  | \$7.45/pcs       | \$111.75       |
|              | 177140 |          |                                                                                                                                                                                                                                                                     | Firmed | 5/16/18  | 20 pcs         | 200 pcs           | 20 pcs  | \$7.45/pcs       | \$149.00       |
| Sub Total:   |        |          |                                                                                                                                                                                                                                                                     |        |          | 46             | 0                 | 46      |                  | \$342.70       |
| 5            | 176020 | 649.5111 | LH Wiper Deflector<br>Issue P/O to ATG : _____ AS<br>PER DWG 649.5100<br>1- Black Anodize as per 2- PRIME AS<br>PER DWG, SEE NOTE #2<br>Certification of Conformity is required                                                                                     | Firmed | 5/16/18  | 10 pcs         | 0 pcs             | 10 pcs  | \$17.50/pcs      | \$175.00       |
| 6            | 176604 | D5230-1  | Mounting Plate<br>Outsource process-Anodize per<br>QSI017 4.1.10.1<br>ISSUE P/O: _____<br>SUPPLIER: ATG HARD ANODIZE<br>BLACK AS PER MIL SPEC AND<br>DWG C OF C IS REQUIRED                                                                                         | Firmed | 5/16/18  | 10 pcs         | 0 pcs             | 10 pcs  | \$9.70/pcs       | \$97.00        |
| 7            | 176021 | 649.5112 | RH Wiper Deflector<br>Issue P/O to ATG : _____ AS<br>PER DWG 649.5100<br>1- Black Anodize 2- PRIME,<br>SEE NOTE #2 Certification of<br>Conformity is required                                                                                                       | Firmed | 5/16/18  | 10 pcs         | 0 pcs             | 10 pcs  | \$17.50/pcs      | \$175.00       |
| 8            | 175562 | 644.4124 | Washer, Pivot<br>1-ISSUE P/O TO<br>ATG: _____<br><br>2-Anodize Black<br>-MPP-172 Section 2.1<br>-Hard Anodize IAW Mil-A-8625 Type 3<br>Class 2<br><br>3-Certification of Conformity is<br>required                                                                  | Firmed | 5/16/18  | 10 pcs         | 0 pcs             | 10 pcs  | \$5.70/pcs       | \$57.00        |
| 9            | 170444 | 646.2910 | Deflector<br>Issue P/O to ATG : _____ AS<br>Hard Anodize, Color Black / Prime As<br>per Dwg 646.2900 Rev. N/C                                                                                                                                                       | Firmed | 5/16/18  | 8 pcs          | 0 pcs             | 8 pcs   | \$49.20/pcs      | \$393.60       |
|              | 174119 |          |                                                                                                                                                                                                                                                                     | Firmed | 5/17/18  | 7 pcs          | 0 pcs             | 7 pcs   | \$49.20/pcs      | \$344.40       |
| Sub Total:   |        |          |                                                                                                                                                                                                                                                                     |        |          | 15             | 0                 | 15      |                  | \$738.00       |
| 10           | 177135 | 649.5012 | Deflector<br>Issue P/O to ATG: _____ AS<br>PER MPP-172 SECTION 2.1, HARD<br>ANODIZE COLOR BLACK, PER IAW<br>MIL-A-8625 TYPE 3 CLASS 2 AS<br>PER MPP-172 SECTION 4.2, PRIME<br>AS PER IAW MIL-PRF-23377 TYPE 1<br>CLASS N Certification of Conformity<br>is required | Firmed | 5/16/18  | 16 pcs         | 0 pcs             | 16 pcs  | \$8.50/pcs       | \$136.00       |
| Grand Total: |        |          |                                                                                                                                                                                                                                                                     |        |          |                |                   |         |                  | \$1,951.70     |
| Order Notes  |        |          |                                                                                                                                                                                                                                                                     |        |          |                |                   |         |                  |                |
|              |        |          |                                                                                                                                                                                                                                                                     |        |          |                |                   |         |                  |                |
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AT 18/05/18

AT 19/05/18

AT 18/05/18

DAS  
11  
9-89

AT 18/05/18

AT 19/05/18





A.T.G. Industries Inc.  
731 Industrielle Street  
Rockland, ON K4K 1T2  
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

### Pack List

Number: 915176

Date: 16-May-18

#### To

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

#### Ship To

Chrisoula Tsimiklis  
Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

| Terms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                    | Ship Via                          |                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                    | OUR TRUCK                         |                                  |
| Quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description                                                                                                                                                                                                                                        |                                   |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.                                                                                                    |                                   |                                  |
| 46<br>ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Part: 649.4813<br>Shim<br>Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils)<br>Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing.<br>Job: 23040               | Rev: E<br>PO: PO039824<br>Line: 4 |                                  |
| 10<br>ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Part: 649.5111<br>LH Wiper Deflector<br>Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils)<br>Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing.<br>Job: 23041 | Rev: D<br>PO: PO039824<br>Line: 5 | DAS<br>11<br>9-89<br>MAY 17 2018 |
| 10<br>ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Part: 649.5112<br>RH Wiper Deflector<br>Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils)<br>Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing.<br>Job: 23043 | Rev: D<br>PO: PO039824<br>Line: 7 |                                  |
| <b>CERTIFICATE OF CONFORMANCE</b><br>A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements.<br><br>Date: <u>16/05/2018</u><br>Certified Signature: <u>[Signature]</u><br>Receiver Signature: _____<br><br>A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited.<br><br>Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of<br><br>Made in Canada. |                                                                                                                                                                                                                                                    |                                   |                                  |